

Algebra I Homework #13

- 1) Is $6x^2 + 7x - 2x^2$ a polynomial? If it is, state whether it is a monomial, binomial, or trinomial.
- 2) Find the x and y intercepts for the equation $-4x + 7y = 12$
- 3) Simplify: $-(-3x^2ya^3)^2(-2x^3a^2y^2)^3$
- 4) Find the equation of the line that goes through the points $(-3,-2)$ and $(7,-8)$.
- 5) Simplify: $-(8x^3 - 4 + 9x^2 - 3x) - (5x^2 - 9x + 2x^3)$
- 6) Simplify: $(4x - 5)(3x + 7)$
- 7) Simplify: $\frac{24x^{-2}y^3a^{-4}}{36x^{-5}y^7a^{-1}}$
- 8) Simplify: $(3x^2 - 2x + 1)(2x^2 + 4x - 5)$
- 9) Simplify: $\frac{3^{-3}x^3y^{-5}a^{-3}}{6^{-2}x^{-1}y^{-8}a^2}$
- 10) Simplify: $(7x - 9)^2$
- 11) Simplify: $\frac{-3x^2(3x^{-3}y^2a^{-1})^{-2}}{4x^7(2xy^2a^{-2})^{-3}}$
- 12) Simplify: $(4x^2 + 3x - 2)^2$
- 13) Simplify: $\frac{-72x^{-4}y^{-7}a^{-5}}{54x^{-6}y^2a^{-3}}$
- 14) Simplify: $(3x - 4)^3$
- 15) Simplify: $\frac{-8^{-2}(3x^{-2}y^3)^{-2}a^3}{4^{-3}(3x^{-5}y^7)^{-3}a^0}$
- 16) Simplify: $(4x - 7)(3x^2 - 6x - 1)$
- 17) Simplify: $\frac{343x^{-4}(y^5a^{-2})^0y^{-4}}{196x^{-7}y^{-6}a^3}$
- 18) Simplify: $(4x^3 + 5x - 3)(6x^2 - 4x - 9)$
- 19) Simplify: $\frac{8y^{-3}(2x^4y^{-4}a)^{-3}a^{14}}{-9x^{-5}(3x^2y^{-5}a^{-4})^{-2}}$
- 20) Simplify: $(3x^3 - 7x^2 - 6)^2$

Copyright © 2013 by Dr. Joseph Phillips

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without prior written permission from the author.